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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/648,384	08/27/2003	Tae-Wan Choi	RPL-0006REI	3800
34610 KED & ASSOC	7590 02/26/200 CIATES, LLP	EXAMINER		
P.O. Box 22120	00	PUNNOOSE, ROY M		
Chantilly, VA 20153-1200			ART UNIT	PAPER NUMBER
			2886	
			MAIL DATE	DELIVERY MODE
			02/26/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/648,384	CHOI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Roy M. Punnoose	2886			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on <u>24 Oc</u>	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-84 is/are pending in the application. 4a) Of the above claim(s) 1-20,47-59,73-76 and 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 21-46,60-72 and 77-80 is/are rejected 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	l 81-84 is/are withdrawn from coi	nsideration.			
· · · <u> </u>					
 9) ☐ The specification is objected to by the Examined 10) ☐ The drawing(s) filed on 27 August 2003 is/are: Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11) ☐ The oath or declaration is objected to by the Examined 	a) accepted or b) dobjected in abeyance. See on is required if the drawing(s) is objected in the drawing(s).	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 09/247,866. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 08/27/2003.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

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DETAILED ACTION

Response to Election/Restriction

1. Applicant's election with traverse of claims 21-46, 60-72 and 77-80 in the reply filed on 10/24/2007 is acknowledged. The traversal is on the ground(s) that the inventions are sufficiently related and therefore the required search is not a serious burden on the Examiner. This is not found persuasive because as detailed in the previous office action, there are structural differences between each invention and each group represents a separate and distinct invention.

It appears that applicant believes the issue of burden only arises from the search of prior art and examination of the application in determining the patentability of the claimed invention. However, applicant is respectfully reminded that conducting a search on application merely plays a small part of examining the invention. Burden may also arise from prosecuting multiple inventions in a single application. Such a type of prosecution merely leads to complication in patentability determination that may ultimately sacrifice the quality of patentability determination.

The requirement is still deemed proper and is therefore made FINAL.

Drawings

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "cell" must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet,

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even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

3. Claims 21-46, 60-72 and 77-80 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The term "cell" is neither defined in the specification nor shown in any of the drawings. This has made the claims vague and indefinite.

Since "cell" is an essential part of the claimed invention, it is not possible to do a thorough search or a proper examination without a full understanding of what the applicant is claiming. In view of the above, an examination of the claims will be made after the applicant makes appropriate corrections to overcome the above deficiencies.

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Contact/Status Information

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Roy M. Punnoose whose telephone number is 571-272-2427.

The examiner can normally be reached on 9:00 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, **Tarifur Chowdhury** can be reached on **571-272-2287**. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Roy M. Punnoose/ Primary Patent Examiner

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